

WHAT IS CLAIMED IS:

1. A method of providing service information through a mobile communication device, comprising the steps of:

accumulating service information to be transmitted to mobile communication devices;

transmitting service information to an arbitrary mobile communication device during intervals between time periods for a main communication process performed by the arbitrary mobile communication device; and

outputting the service information on the mobile communication device side.

2. A method of providing service information according to Claim 1, further comprising the step of transferring the service information from the mobile communication device receiving the service information to a portable terminal capable of direct communication with the mobile communication device, wherein the portable terminal outputs the service information.

3. A method of providing service information according to Claim 1, further comprising the step of requesting a user to confirm the user's intention to output the service

information or not.

4. A method of providing service information according to Claim 2, further comprising the steps of:

requesting a user to confirm the user's intention to output the service information or not; and

outputting the service information by determining that the user has performed a predetermined confirmation operation when an acceleration sensor provided in the portable terminal detects a predetermined acceleration.

5. A method of providing service information according to Claim 1, further comprising the step of transmitting the service information to the mobile communication terminal and making the mobile communication terminal output the service information in a predetermined cycle during the main communication process.

6. A method of providing service information according to Claim 1, further comprising the step of computing an amount claimed to be paid for communication such that the charge for communication to be paid by the user using the service information during the main communication process is reduced to zero while the service information provider is charged the

amount corresponding to the charge for communication.

7. A method of providing service information according to Claim 1, further comprising the step of computing an amount claimed to be paid for communication such that the charge for communication to be paid by the user using the service information during the main communication process is discounted, while the service information provider is charged the amount corresponding to the reduction in the charge for communication to be paid by the user.

8. A method of providing service information according to Claim 1, further comprising the step of adding a point for offering a privilege to the user according to the service information used by the user during the main communication process.

9. A method of providing service information according to Claim 1, further comprising the step of transmitting the service information as letter or image information to the mobile communication device and making the mobile communication device display the information if the main communication process is a process of telephone communication using speech.

10. A method of providing service information according to Claim 1, further comprising the step of transmitting the service information as speech information to the mobile communication device and making the mobile communication device announce the information if the main communication process is a process of communication using letters or an image.

11 A system for providing service information through a mobile communication device, comprising:

service information accumulation means for accumulating service information to be transmitted to the mobile communication devices;

service information transmitting means for transmitting service information to an arbitrary mobile communication devices during intervals between time periods for a main communication process performed by the arbitrary mobile communication device; and

service information outputting means for outputting the service information on the mobile communication device side.

12. A system for providing service information through a mobile communication device according to Claim 11, further

comprising service information transfer means for transferring the service information from the mobile communication device receiving the service information to a portable terminal capable of direct communication with the mobile communication device, wherein the service information transfer means is provided in the portable terminal, and the portable terminal outputs the service information.

13. A system of providing service information according to Claim 11, further comprising confirmation means for requesting a user to confirm the user's intention to output the service information or not.

14. A system of providing service information according to Claim 12, further comprising:

confirmation means for requesting a user to confirm the user's intention to output the service information or not; and

an acceleration sensor provided in the portable terminal, wherein, when a predetermined acceleration is detected by the acceleration sensor, the confirmation means determines that the user has performed a predetermined confirmation operation, and enables outputting of the service information.

15. A system of providing service information according

to Claim 11, further comprising timing output means for transmitting the service information to the mobile communication terminal and making the mobile communication terminal output the service information in a predetermined cycle during the main communication process.

16. A system of providing service information according to Claim 11, further comprising free-of-charge communication fee computation means for computing an amount claimed to be paid for communication such that the charge for communication to be paid by the user using the service information during the main communication process is reduced to zero while the service information provider is charged the amount corresponding to the charge for communication.

17. A system of providing service information according to Claim 11, further comprising discounted communication fee computation means for computing an amount claimed to be paid for communication such that the charge for communication to be paid by the user using the service information during the main communication process is discounted, while the service information provider is charged the amount corresponding to the reduction in the charge for communication to be paid by the user.

18. A system of providing service information according to Claim 11, further comprising point addition means for adding a point for offering a privilege to the user according to the service information used by the user during the main communication process.

19. A system of providing service information according to Claim 11, further comprising letter and image selection means for transmitting the service information as letter or image information to the mobile communication device and making the mobile communication device display the information if the main communication process is a process of telephone communication using speech.

20. A system of providing service information according to Claim 11, further comprising announcement selecting means for transmitting the service information as speech information to the mobile communication device and making the mobile communication device announce the information if the main communication process is a process of communication using letters or an image.

21. A mobile communication device comprising service

information transfer means for transferring service information to a portable terminal capable of direct communication with the mobile communication device when the mobile communication device receives the service information.

22. A portable terminal comprising service information output means for outputting service information when the service information is transferred from a mobile communication device capable of direct communication with the portable terminal.

23. A portable terminal according to Claim 22, further comprising means for requesting a user to confirm the user's intention to output the service information or not.

24. A portable terminal according to Claim 23, further comprising an acceleration sensor, wherein when a predetermined acceleration is detected by the acceleration sensor, the confirmation means determines that the user has performed a predetermined confirmation operation, and enables outputting of the service information.

25. A mobile communication management server comprising service information transmitting means for transmitting

service information to an arbitrary mobile communication device during intervals between time periods for a main communication process performed by the arbitrary mobile communication device.

26. A mobile communication management server according to Claim 25, further comprising service information accumulation means for accumulating service information to be transmitted to the mobile communication devices.

27. A mobile communication management server according to Claim 25, further comprising service information acquisition means connected to a provider server which manages a service information provider, in which service information to be transmitted to the mobile communication devices is accumulated, the service information acquisition means for obtaining service information from the server and for transmitting the service information to the mobile communication device.

28. A computer-readable recording medium comprising a program stored thereon, the program enabling a computer to execute a method of providing service information through a mobile communication device according to Claim 1.

29. A computer-readable recording medium comprising a program recorded thereon so as to be readable by a computer, the program realizing the respective means according to Claim 11.

0903550-074E04
T02720-06550660